

# ELEMENTAL CSTATMUX

# **Video Processing In The Cloud**

Elemental<sup>®</sup> Cloud is a Platform as a Service (PaaS) that securely manages high-volume live and on demand video solutions in combination with the scale and elasticity of the cloud. The service automatically provisions and dynamically scales virtual Elemental instances, and can seamlessly integrate those resources with on site infrastructure to instantly expand video processing capacity. This flexibility enables video providers to rapidly enhance multiscreen video offerings, grow audiences, generate greater revenues, and decrease capital expenses.

# **EXPERIENCE THE BENEFITS**

### **Capture New Viewers**

The proliferation of viewing devices makes video delivery possible to a wider audience than ever before. New tablets and smart phones are flooding the market, but to reach them, providers must convert video libraries at irregular intervals to support numerous screen sizes and resolutions. Elemental Cloud lets video suppliers quickly and easily expand infrastructure to seamlessly scale with market growth.

### **Protect Your Audience**

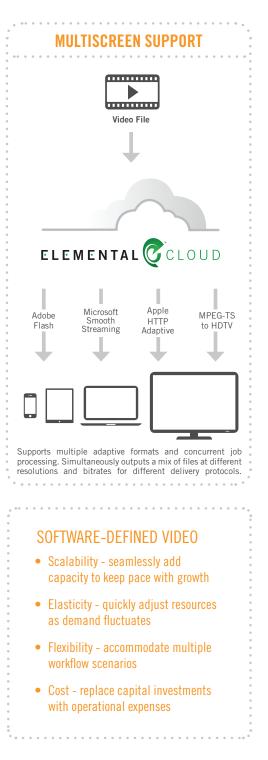
Media coverage of breaking news can unexpectedly drive demand for archived video from documentaries, interviews and other content. This influx of usage can overwhelm processing equipment and constrain production of key assets, driving viewers to other outlets. By using Elemental Cloud to elastically scale video processing up and down during these events, content providers can ensure transcoding capacity is always in line with demand.

### **Extract Unrealized Revenue**

The emerging multiscreen ecosystem is creating new revenue opportunities for archived content, but supporting the infrastructure for a one time project to convert a video library into new distribution formats can be cost prohibitive. Elemental's flexible, hybrid model provides access to infinite resources by conditioning large in-house data for secure, high-speed delivery to the cloud.

### Maximize Existing Investments

Many companies overinvest in video infrastructure to avoid capacity shortages caused by market growth or usage spikes. Elemental Cloud enables providers to procure just the right amount of hardware to fulfill regular processing requirements, while leveraging cloud resources to keep pace with variable demand. This allows media professionals to economically balance transcoding capacity and optimize the video infrastructure they already have.

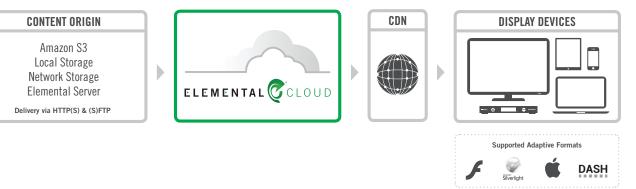




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### **ELEMENTAL CLOUD WORKFLOW**



## FLEXIBLE WORKFLOW SUPPORT

Elemental Cloud addresses each of the following examples through integration with cloud-based infrastructure partners, ground-to-cloud processing appliances, and coordination across local and cloud-based resources.

A pure cloud workflow requires no on-site infrastructure. Aggregators that source content from studios or networks don't necessarily require equipment on premise to store or process video before it's distributed to end users. For these providers, Elemental Cloud facilitates the transfer of video directly from the source to the cloud to be processed without ever touching the ground.

#### A hybrid workflow (ground-to-cloud)

integrates an on-site appliance with cloud-based video transcoding. Many content owners want to take advantage of cloud resources, but the value and size of professional grade video presents a challenge in transferring files. Elemental Cloud removes this obstacle by working in conjunction with an Elemental® Server system to condition and encrypt files for secure, accelerated transfer to the cloud. A cloud-bursting workflow augments physical data centers with clusters of cloud resources. Many companies maintain video processing infrastructure, but the introduction of new devices and peak viewing can intermittently outpace capacity. Elemental Cloud allows providers to quickly meet the increase in demand by coordinating on-site transcoding with virtual resources in the cloud until the overflow is processed.

## **SPECIFICATIONS**

Output Formats	Output Protocols	Output Containers	System Control	Image Processing	Other Features	
H.264 (Baseline, Main, High)	Flash Media Server (F4V)	F4V	HTML-Based UI/REST API Fully Redundant	Motion Adaptive Deinterlacing	Apple ProRes 422 Decode	•
		ISMV			Closed Caption	•
MPEG-2	Microsoft Smooth Streaming (ISMV)	ASF/WMV	Auto Failover	Inverse Telecine Support	Pass Through	•
/C-1	•	3GP	Video Preview	Scene Change Detection	SCTE-35 Support	
Simple, Main, Advanced)	<ul> <li>Apple HTTP Adaptive (MPEG-TS)</li> </ul>	MP4	Real-Time Resource	Deblocking	Integrated Segmenter	
AC-LC/AAC-HE	HTML5 Support	MPEG-TS	Monitoring	Anti-Alias Scaling	Logo Insertion	
VMA2	CableLabs Compliant	MOV	Notification and Alerts	Noise Reduction	Automated Load	
\C-3	Option (MPEG-TS)		Job Prioritization	Lanczos Scaling	Balancing	•
WAV	Other HTTP Options (MPEG-TS)	MXF	and Planning	Temporal Filtering Multipass Encoding Color Conversion Thumbnail Creation Bilateral Filtering Watchfolder Support MPEG-2 Error Concealment Apple Store Compliant	Multipass Encoding	•
		•	Pre and Post Processing Scripts User Level Account Control/ Authentication		Thumbnail Creation	•
	Omneon MediaDeck Options	• • • • • • • • • • • • • • • • • • •				•
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Specifications Subject To Change Without Notice

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